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(c) further process the [initially-processed] stored image to thereby effect decompression and compensation for printer characteristics.

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3. (Amended) A digital camera as set forth in Claim 1 further adapted to effect [one or more of the following:] image sensor tone scale compensation[, color filter array interpolation, color space transformation, re-sizing, spatial filtering, and data compression].

SUB E2

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4. (Amended) A digital camera for use with printers having predetermined process color and printing process parameters, a camera interface, a processor, a program memory, and a marking apparatus under the control of the processor; said camera comprising:

an imager to capture images;

a non-volatile memory;

a printer interface for receiving process color and printing process parameters from the printer and for transmitting processed images to the printer, wherein the camera receives color and printing process parameters from the printer and stores the parameters in the non-volatile memory; and

an image processor [with program memory for processing] adapted to sequentially:

(a) process the captured image, by color filter interpolation and compression, to thereby produce an initially-processed image [;additional program memory adapted to],

(b) store the processed captured image in said non-volatile memory, and

(c) further process the [initially-processed] stored image to effect decompression and then, using the stored parameters, to effect compensation for printer characteristics including color space transformation into color planes that coincide with printer process colors; and

a printer interface for receiving process color and printing process parameters from the printer and for transmitting processed images to the printer, wherein the camera receives color and printing process parameters from the printer, stores the parameters in the additional program memory, applies the parameters by further processing the initially-processed image to compensate for printer characteristics, and transmits the printer compensated image to the printer].

D3

cont

5. (Amended) A system comprising:
a printer having predetermined process colors and printing process
characteristics represented by parameters stored therein and a digital
interface adapted to communicate the parameters;
an interface adapted to communicate with the printer to receive the parameters
from the printer; and
a digital camera including:
an imager to capture images,
a non-volatile memory;
an image processor [with program memory for processing] adapted to
sequentially:
(a) process the captured image, by color filter interpolation and
compression, to produce an initially-processed image,
(b) store the processed captured image in said non-volatile memory,
and
(c) further process the stored image to effect decompression and, [an
interface adapted to communicate with the printer to receive the
parameters from the printer[, and additional program memory
adapted to further process the initially-processed image] using the
parameters provided by the printer, to effect compensation for
printer characteristics.

D4

7. (Amended) A system as set forth in Claim 5 further adapted effect [one or
more of the following:] image sensor tone scale compensation[, color filter array
interpolation, color space transformation, re-sizing, spatial filtering, and data
compression].

Sub E3

11. (Amended) A process for digital cameras used with a printer having
predetermined process colors and printing process characteristics, said process
including the steps of:
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capturing an image on an imager;
processing the captured image by color filter interpolation and compression to
produce an initially-processed image; and

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further processing the initially-processed image to effect decompression and compensation for [changes] in printer characteristics [which vary during the printing process].

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13. (Amended) A process as set forth in Claim 11 further comprising effecting one or more of the following: image sensor tone scale compensation, [color filter array interpolation, color space transformation,] re-sizing, and spatial filtering[, and data compression].

14. (Amended) A process for digital cameras used with a printer, said process including the steps of:

capturing an image on an imager;
receiving from the printer parameters which vary as a result of manufacturing variations in the printer;
processing the captured image to effect compensation for manufacturing variations in the printer by way of color space transformation into color planes that coincide with printer process colors; and
providing the processed image to the printer for printing.

18. (Amended) A process for printers used with a digital camera providing processing that corrects for manufacturing variations of the printer, said process including the steps of:

measuring parameters which may vary as a result of manufacturing variations;
storing the parameters in a parameter memory within the printer;
providing the stored parameters to the digital camera;
receiving a corrected digital image from the camera, said image having been corrected by way of color space transformation into color planes that coincide with printer process colors; and
printing the corrected digital image.

Add the following claims:

- D8
--21. A digital camera as set forth in Claim 1 further adapted effect re-sizing.
22. A digital camera as set forth in Claim 1 further adapted effect spatial filtering.
23. A system as set forth in Claim 5 further adapted effect re-sizing.
24. A system as set forth in Claim 5 further adapted effect spatial filtering.--